

a data packet that has received the no communication signal or communication error signal.

[0357] The wireless power receiver may receive information associated with the configuration phase 2020, and then enter the negotiation phase 2030. In other words, when a configuration (CFG) packet is received during the configuration phase 2020, the wireless power transmitter 100 may be allowed to enter the negotiation phase 2030.

[0358] The negotiation phase 2030 may be a phase in which the wireless power receiver transmits information associated with the negotiation phase 2030 to the wireless power transmitter 100 to effectively transfer power to the wireless power receiver. More specifically, the negotiation phase 2030 may be a phase in which the wireless power receiver provides power information to be transmitted to the wireless power receiver to the wireless power transmitter in a shared mode.

[0359] Here, the wireless power transmitter 100 may continuously provide locked slots provided during the configuration phase 2020 even during the negotiation phase 2030. In other words, the wireless power transmitter 100 may provide the locked slots, thereby securing the progress of the negotiation phase 2030 without any collision between the wireless power receiver and a wireless power receiver different from the wireless power receiver.

[0360] The wireless power receiver may transmit information associated with the negotiation phase 2030 using the locked slots. In other words, the wireless power transmitter 100 may receive information associated with the negotiation phase 2030 from the wireless power receiver within the locked slots.

[0361] Here, the information associated with the negotiation phase 2030 may include optionally proprietary data packets, negotiation data packets, and an end negotiation phase request (SRQ/en, end-negotiation) packet. The negotiation data packets may include specific request (SRQ) packets and general request (GRQ) packets.

[0362] Referring to FIG. 26, the SRQ packet 2800 may include request ground information and request value information. Here, the request ground information may be any one of end negotiation information, guaranteed power information, received power packet type information, modulation depth information, maximum power information, and insert free-format frame information. The request value information may include parameter information determined by the request ground information.

[0363] The end negotiation phase request packet may include information on requesting the end of the negotiation phase 2030. When the end negotiation phase request packet is transmitted, the wireless power receiver may end the negotiation phase 2030 and enter the power transfer phase 2040.

[0364] When information associated with the negotiation phase 2030 is received, the wireless power transmitter 100 may respond to the wireless power receiver using any one of an ACK signal, a NAK signal, a no communication signal and a communication error signal.

[0365] More specifically, the wireless power transmitter 100 may transmit an ACK signal or NAK signal to the wireless power receiver with respect to the negotiation data packet.

[0366] Furthermore, when the optionally proprietary data packets cannot be recognized since they differ from preset data, the wireless power transmitter may transmit a NAK

signal to the wireless power receiver, and otherwise transmit an ACK signal or NAK signal in an appropriate manner.

[0367] Furthermore, when the no communication signal or communication error signal is received with respect to information associated with the negotiation phase 2030, the wireless power transmitter 100 may retransmit data that has received the no communication signal or communication error signal.

[0368] On the other hand, when the reception of the information associated with the negotiation phase 2030 is completed, the wireless power transmitter 100 may enter the power transfer phase 2040. For example, when end negotiation phase request packet (SRQ/en) is received, the wireless power transmitter 100 may transmit an ACK signal, and the wireless power receiver may enter the power transfer phase 2040.

[0369] Here, when the negotiation phase 2030 is completed, the wireless power transmitter 100 may suspend the provision of the locked slots to the wireless power receiver.

[0370] The power transfer phase 2040 may denote a phase of transmitting power in a wireless manner. The wireless power receiver may continuously transmit a control information (CI) packet through the allocated first slot during the power transfer phase 2040. Furthermore, the wireless power receiver may freely transmit one or more data packets using free slots among a plurality of slots.

[0371] More specifically, the wireless power receiver may transmit an end power transfer packet, a charge status packet (CHS2), and proprietary data packets during the power transfer phase 2040.

[0372] Referring to FIG. 27, the end power transfer packet 2900 may include request information and slot information of the end power transfer packet. The request information of the end power transfer packet may include any one of charging complete information, internal fault information indicating a software or logic error, over-temperature information, over voltage information, over current information, battery failure information indicating a battery defect, reconfigure request information, no response information indicating no response to a control information packet or control error packet, renegotiate request information, and unknown information. The slot information may include number information of a slot allocated to the wireless power receiver.

[0373] Referring to FIG. 28, the charge status packet may include charge status information and slot information. The charge status information may be information of a current charging amount of the wireless power receiver. For example, the charging status information may be charging percentage information. The slot information may include numerical information of a slot allocated to the wireless power receiver.

[0374] As data packets optionally generated from the wireless power receiver, the proprietary data packets may include manufacturer information or the like of the wireless power receiver, for example.

[0375] On the other hand, the wireless power transmitter 100 may control the wireless power receiver based on end power transfer packet information to the wireless power receiver. For example, when reconfigure request information is included in the end power transfer packet, the wireless power receiver may return to the configuration phase 2020 again from the power transfer phase 2040.